

03 CO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

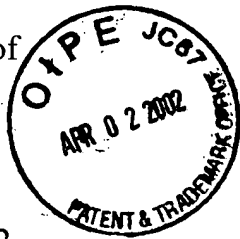
In re Patent Application of

O'MAHONY ET AL

Serial No. 10/073,855

Filed: February 14, 2002

For: METHOD AND APPARATUS FOR AN
EXTRACORPOREAL TREATMENT DEVICE
TO CONTROL BLOOD WITHDRAWAL AND
INFUSION



Confirmation No. 6324

Allowed: N/A

Atty Ref.: 3659-40

Group: 3738

Examiner:

* * * * *

April 2, 2002

Assistant Commissioner for Patents
Washington, DC 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

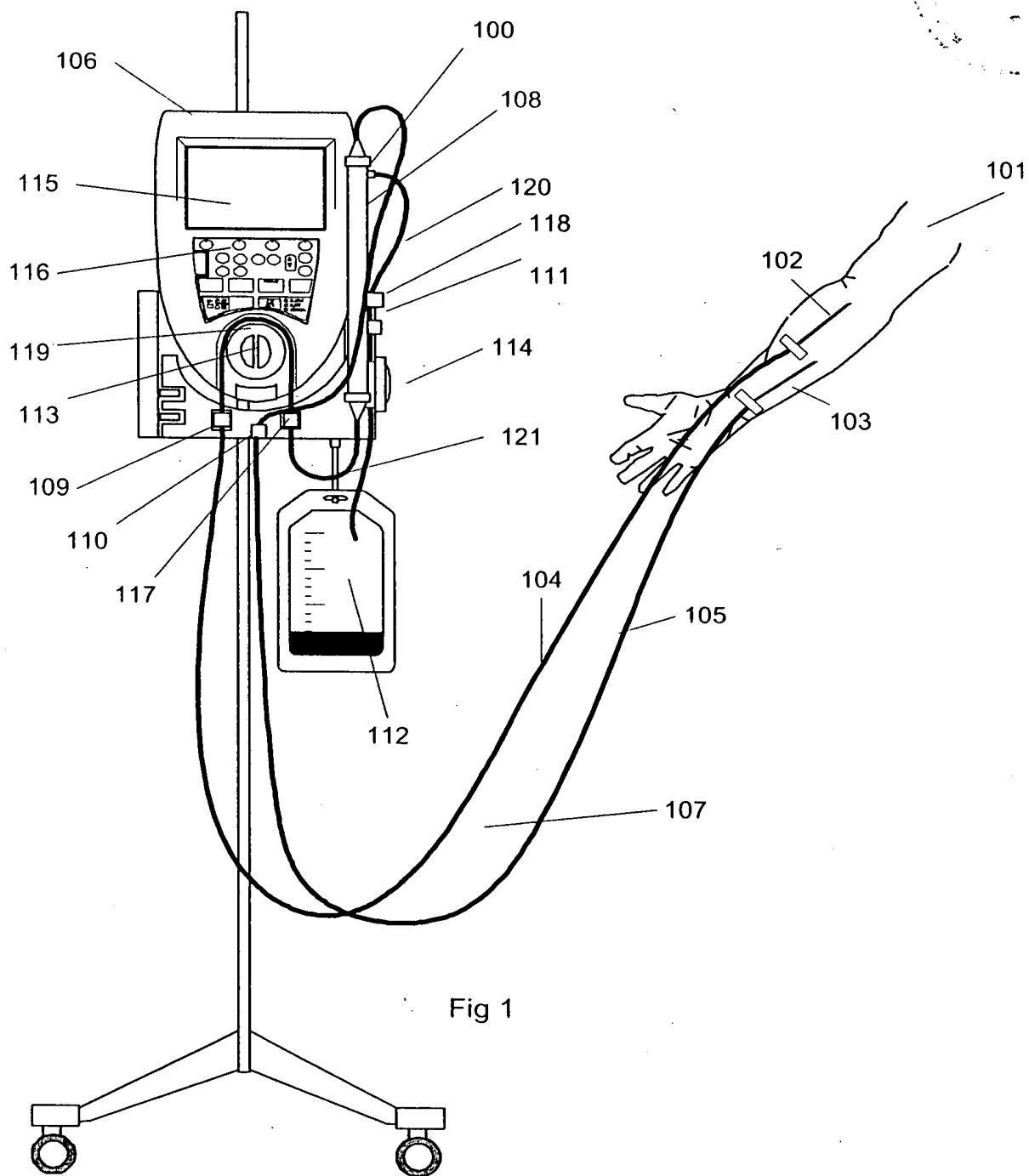
Enclosed herewith are eleven sheets of formal, inked drawings for the above-identified application.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: Jeffrey H. Nelson
Jeffrey H. Nelson
Reg. No. 30,481

JHN:maw
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100



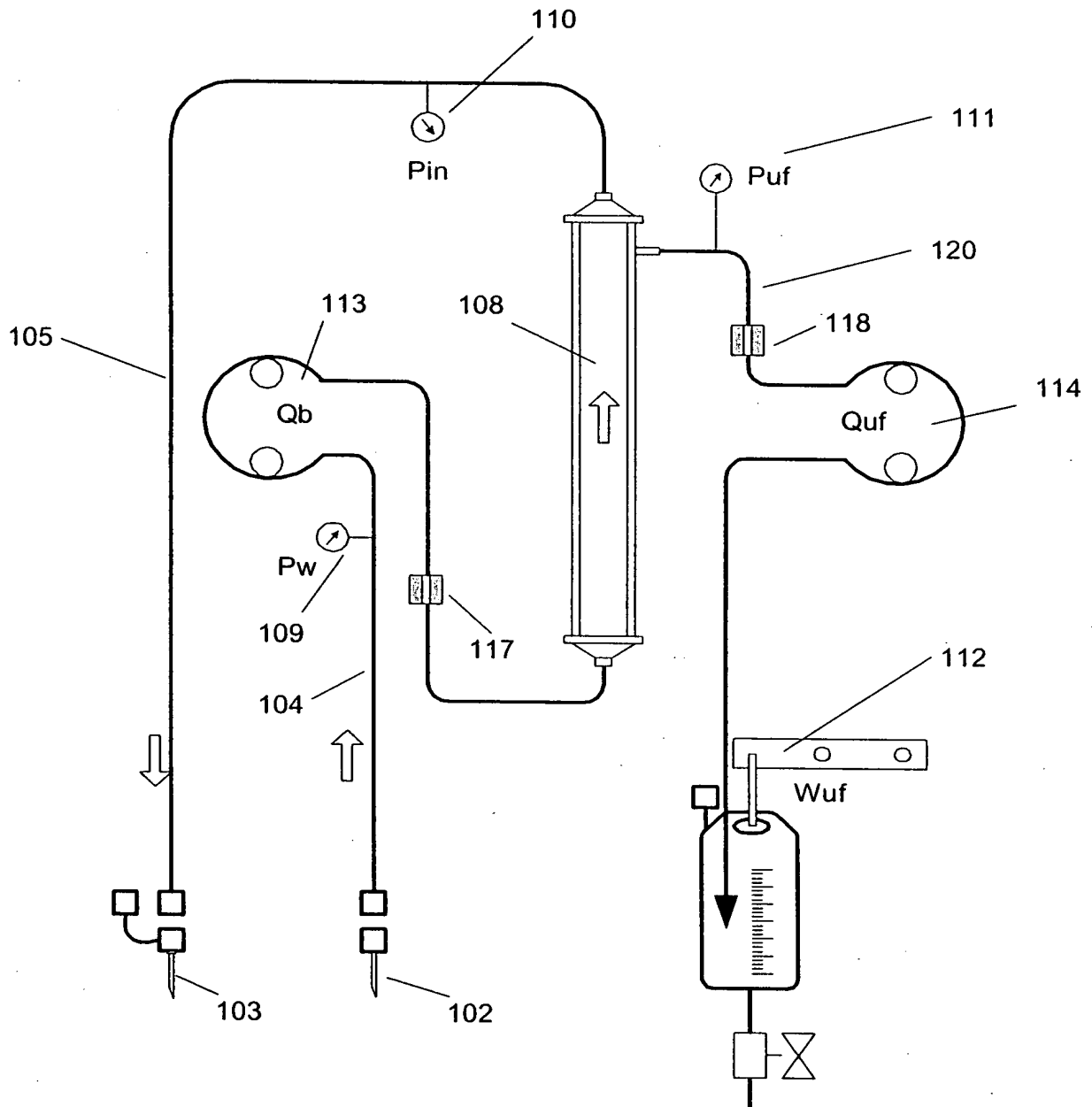


Fig. 2

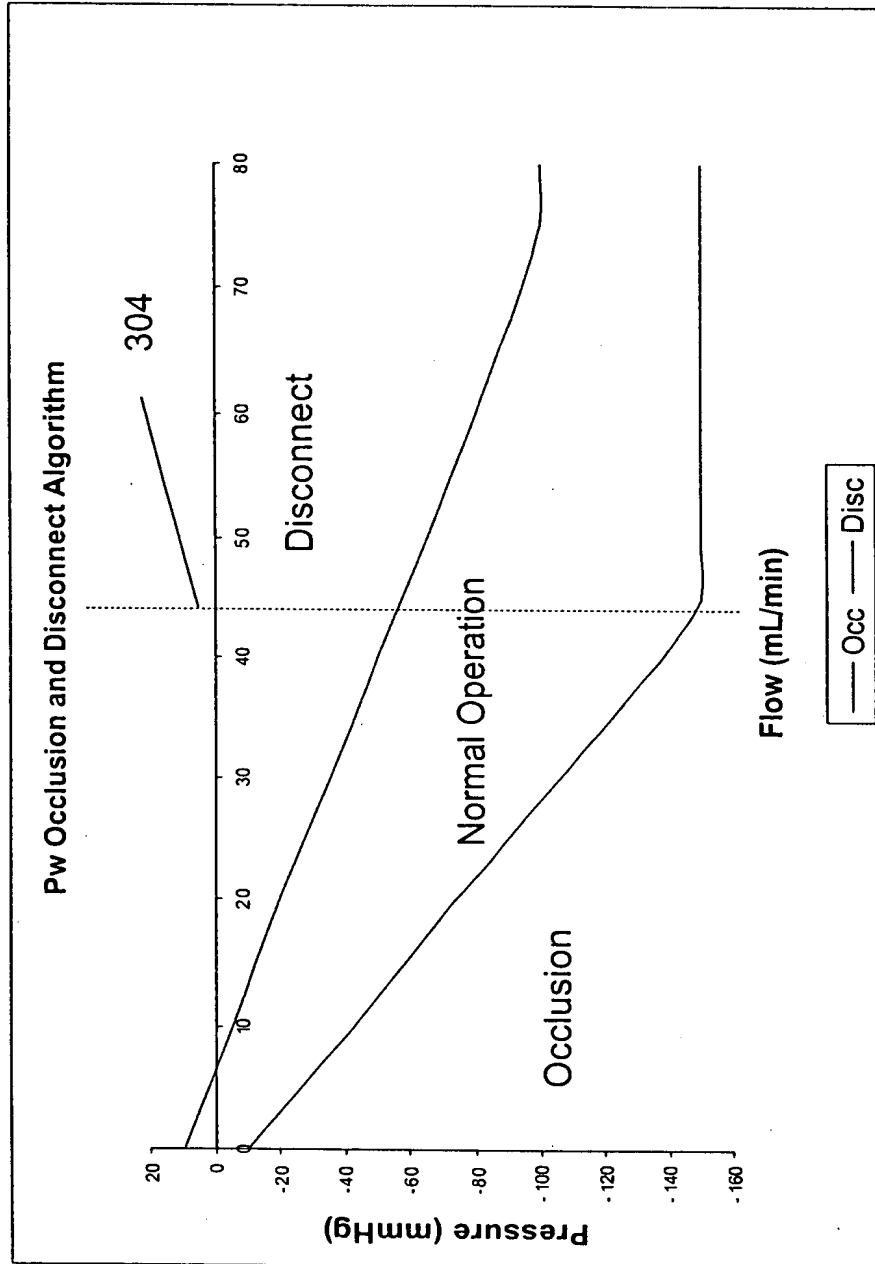
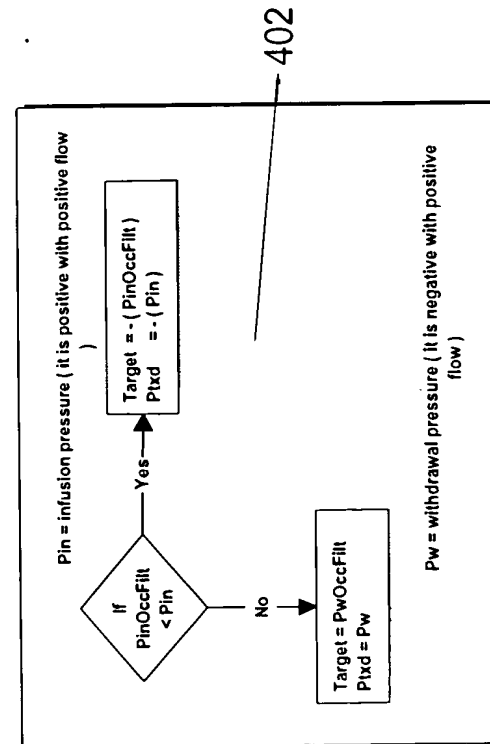
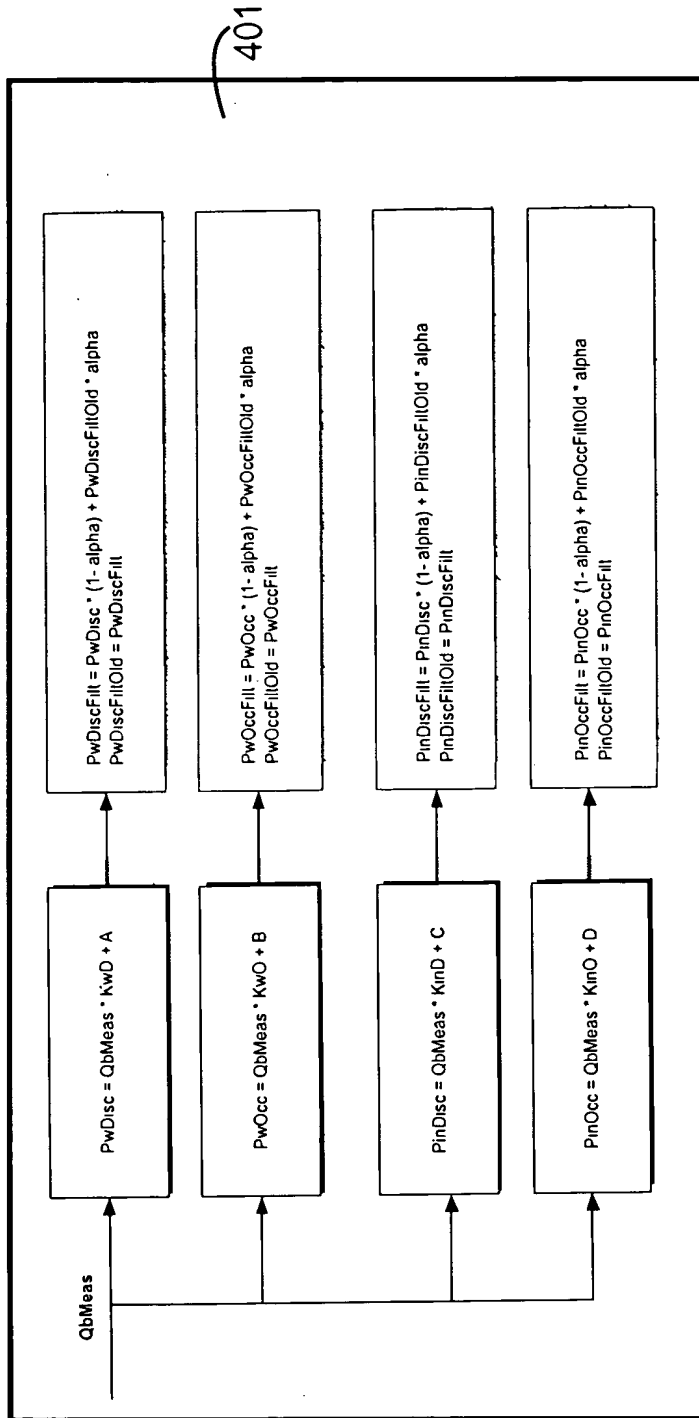


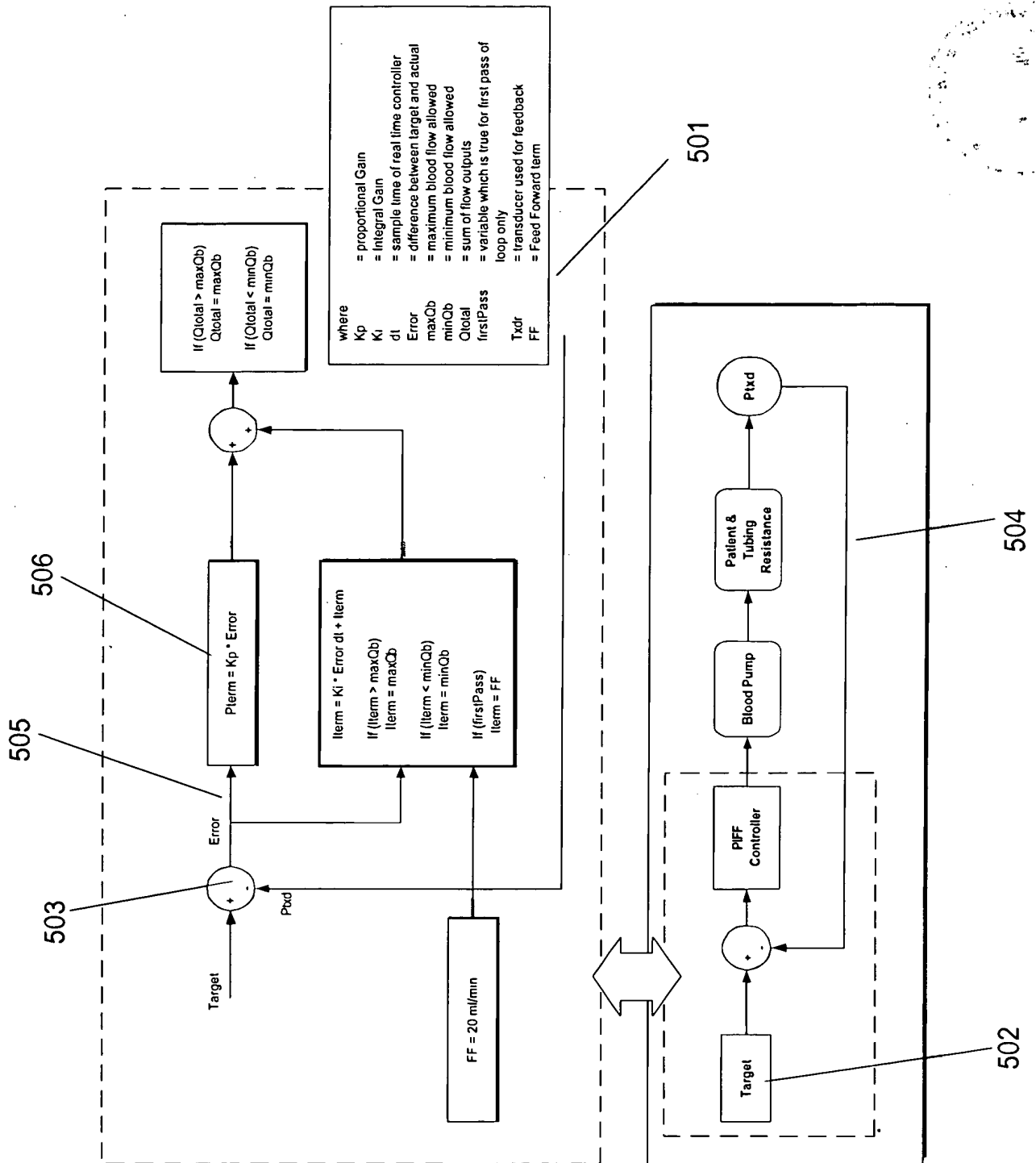
Fig. 3



where :

PwDisc	=	Withdrawal Disconnect Pressure
PwDiscFill	=	Filtered Withdrawal Disconnect Pressure
PinDisc	=	Infusion Disconnect Pressure
PinDiscFill	=	Filtered Infusion Disconnect Pressure
PwOcc	=	Withdrawal Occlusion Pressure
PwOccFill	=	Filtered Withdrawal Occlusion Pressure
PinOcc	=	Infusion Occlusion Pressure
PinOccFill	=	Filtered Infusion Occlusion Pressure
QbMeas	=	Measured Blood Flow using encoder
alpha	=	Alpha constant for low pass filter
Kwo	=	Slope of Withdrawal Disconnect
A	=	Offset of Withdrawal Disconnect
Kwo	=	Slope of Withdrawal Occlusion
B	=	Offset of Withdrawal Occlusion
KinD	=	Slope of Infusion Disconnect
C	=	Offset of Infusion Disconnect
KinO	=	Slope of Infusion Occlusion
D	=	Offset of Infusion Occlusion
Target	=	Target Pressure

Fig. 4



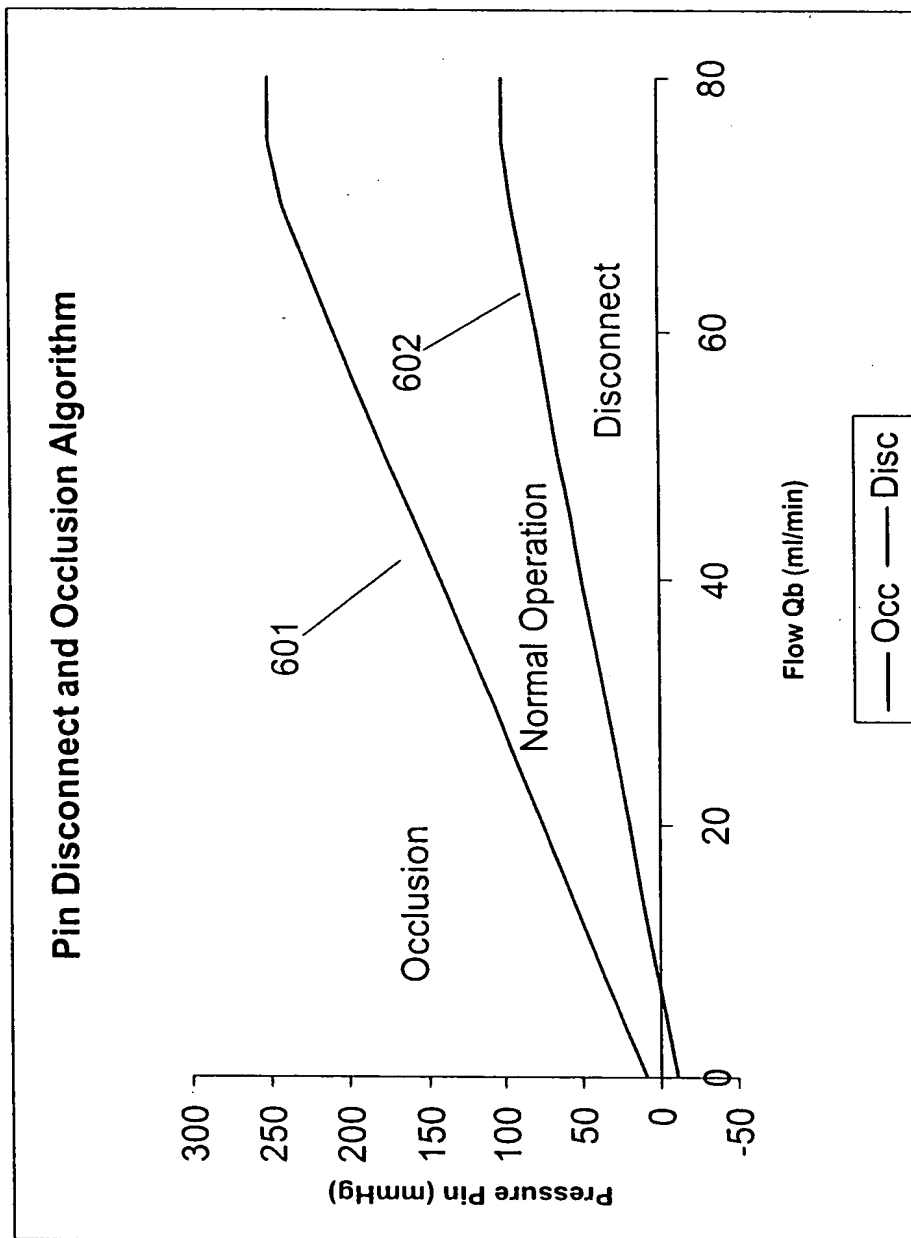


Fig. 6

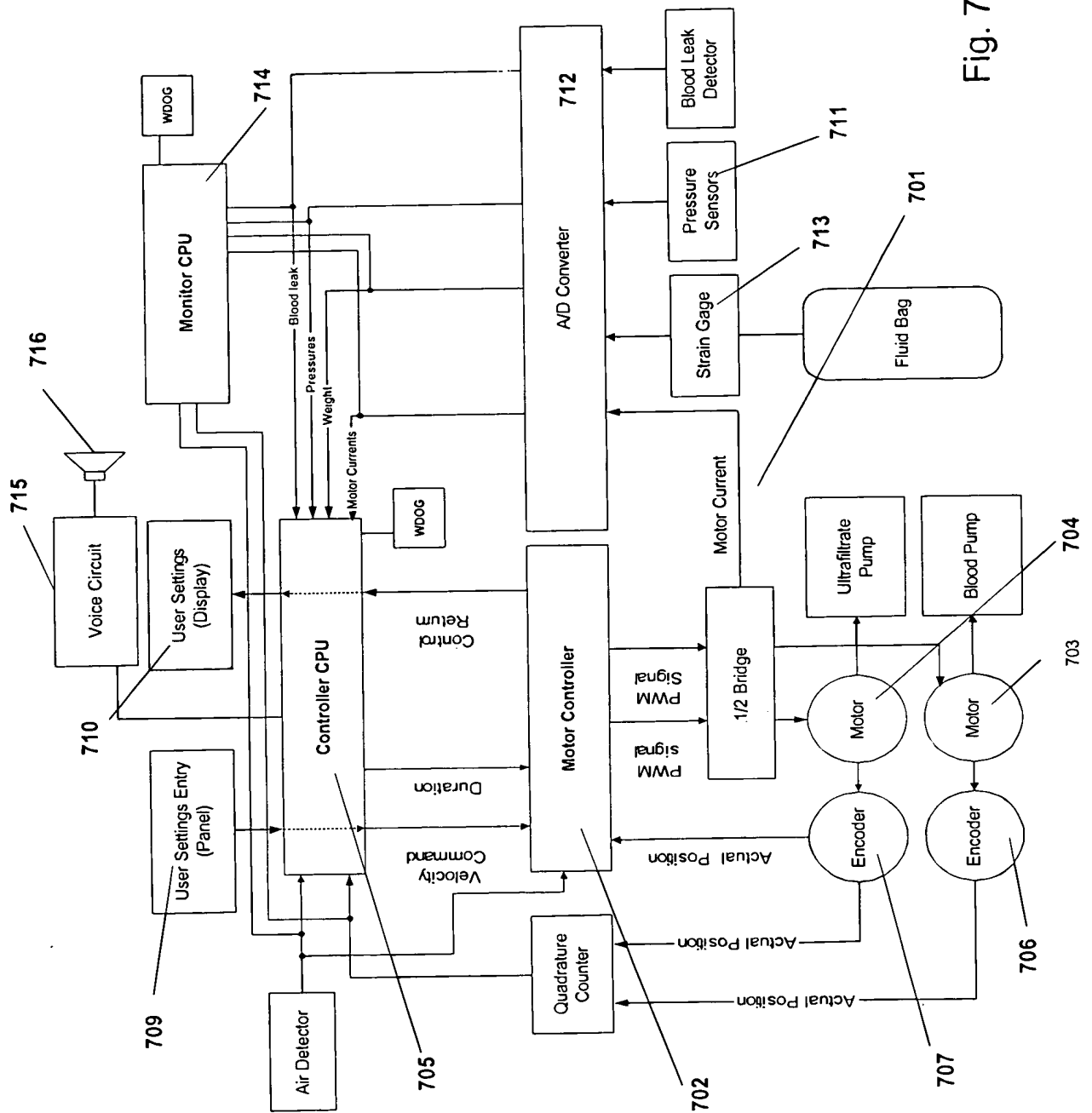


Fig. 7

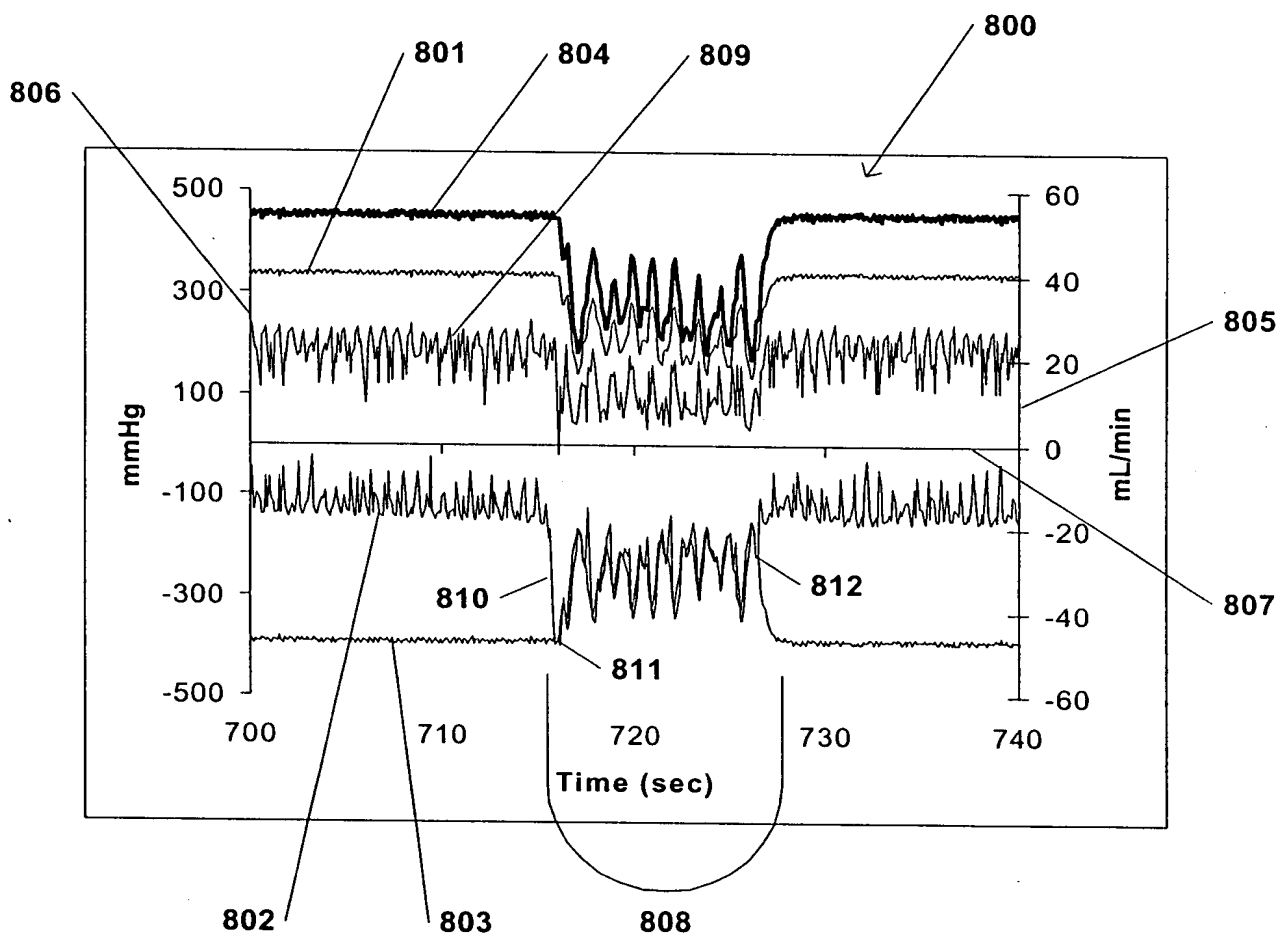


Fig. 8

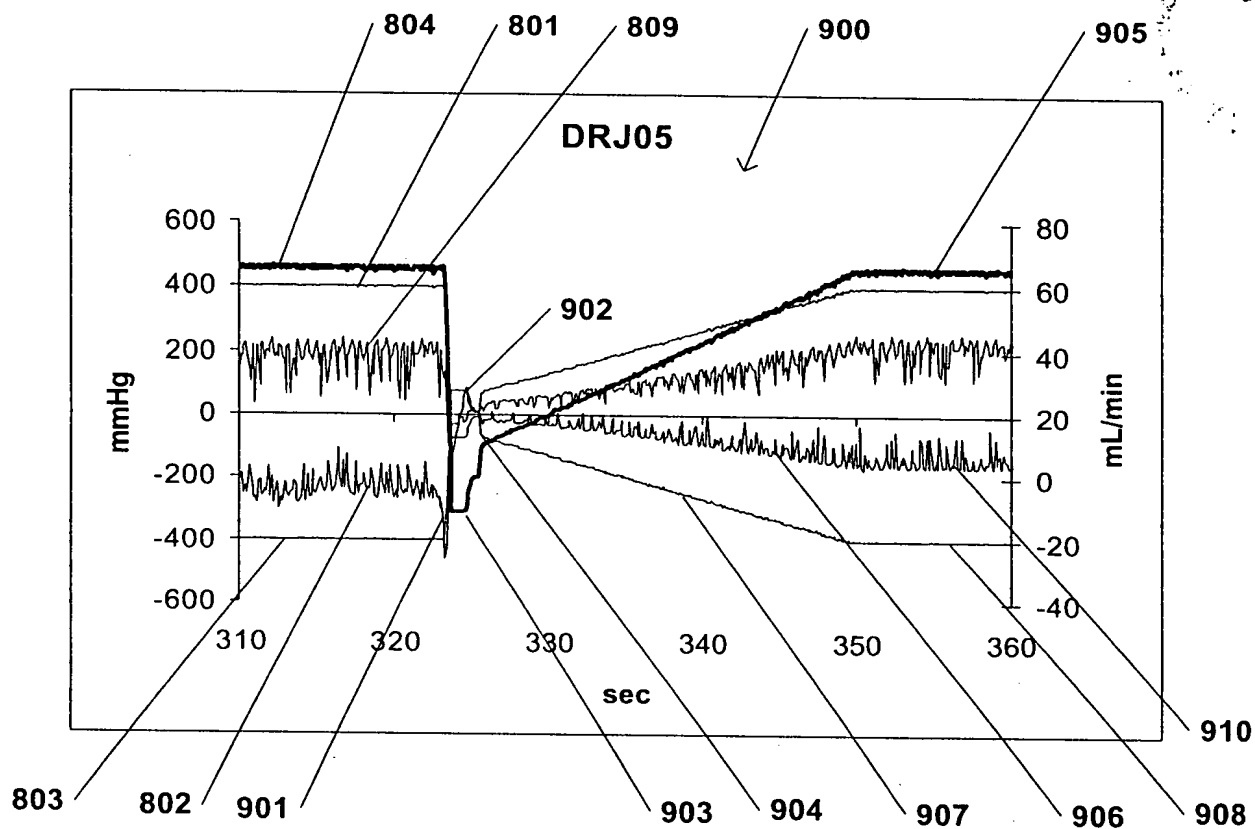


Fig. 9

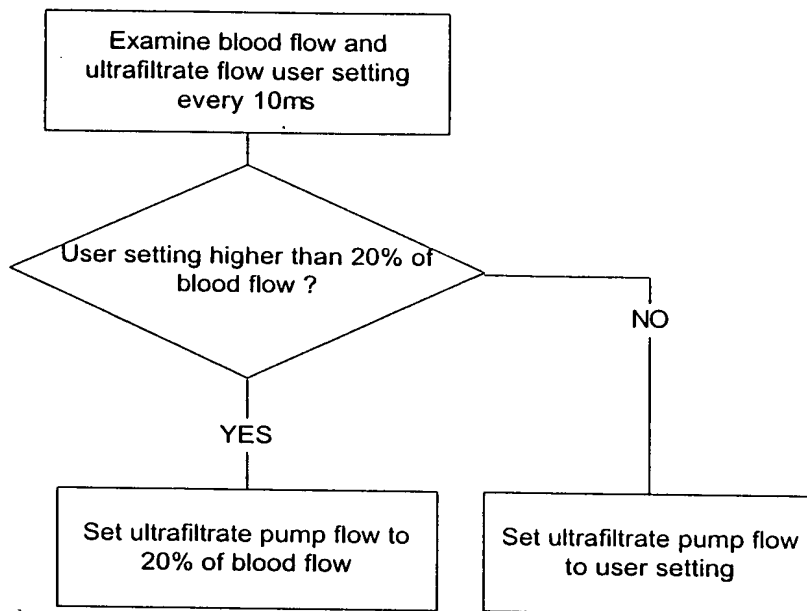


Fig. 10

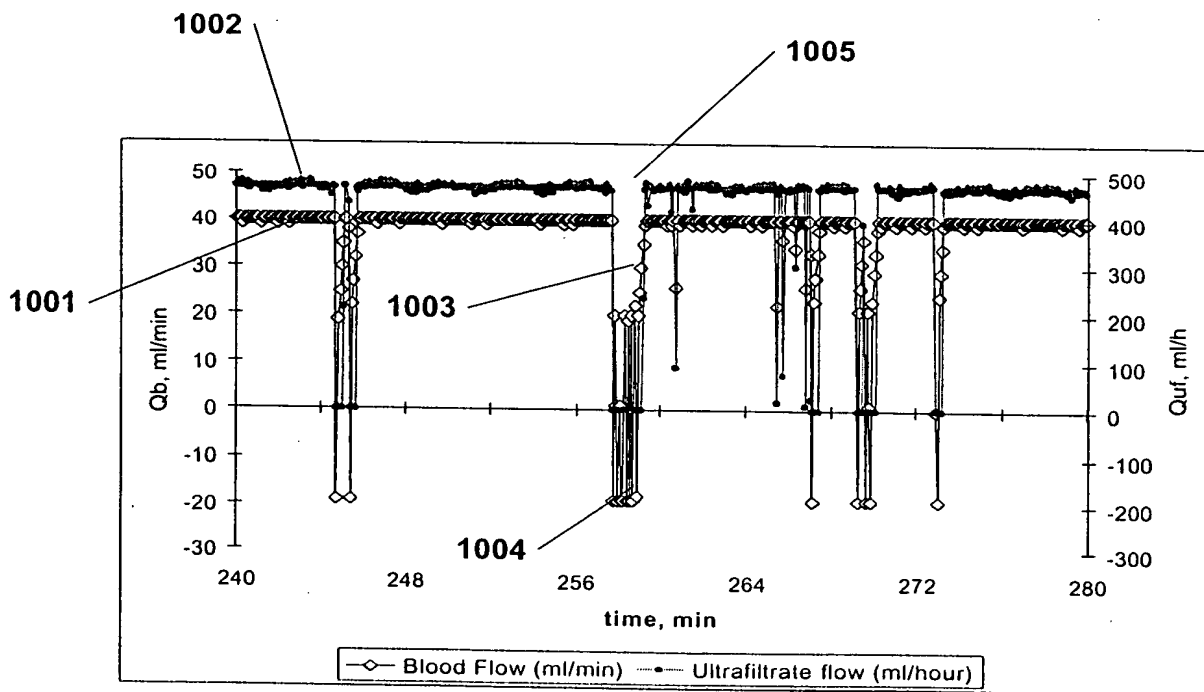


Fig. 10

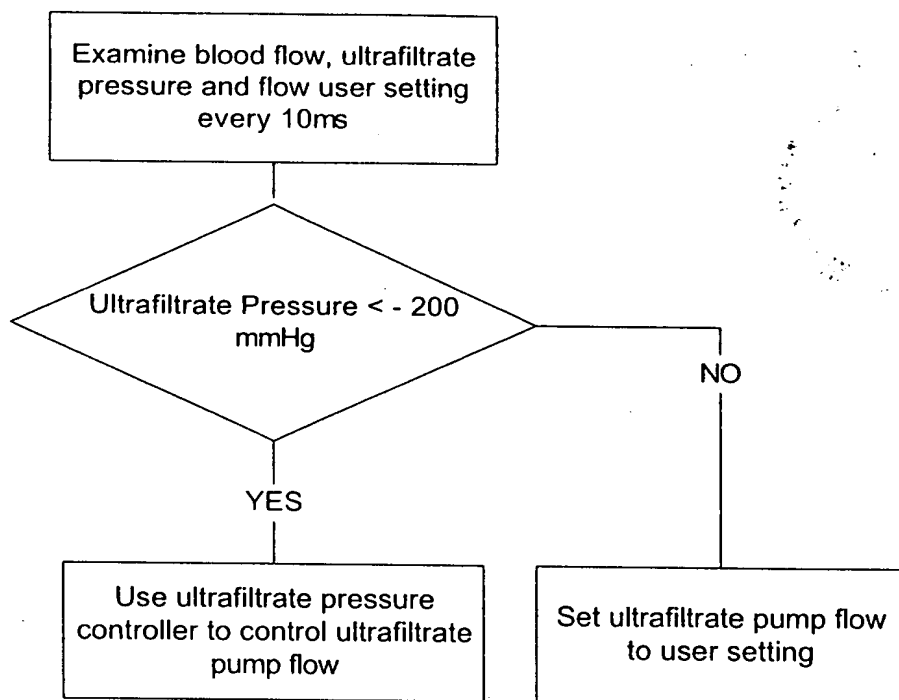


Fig. 12

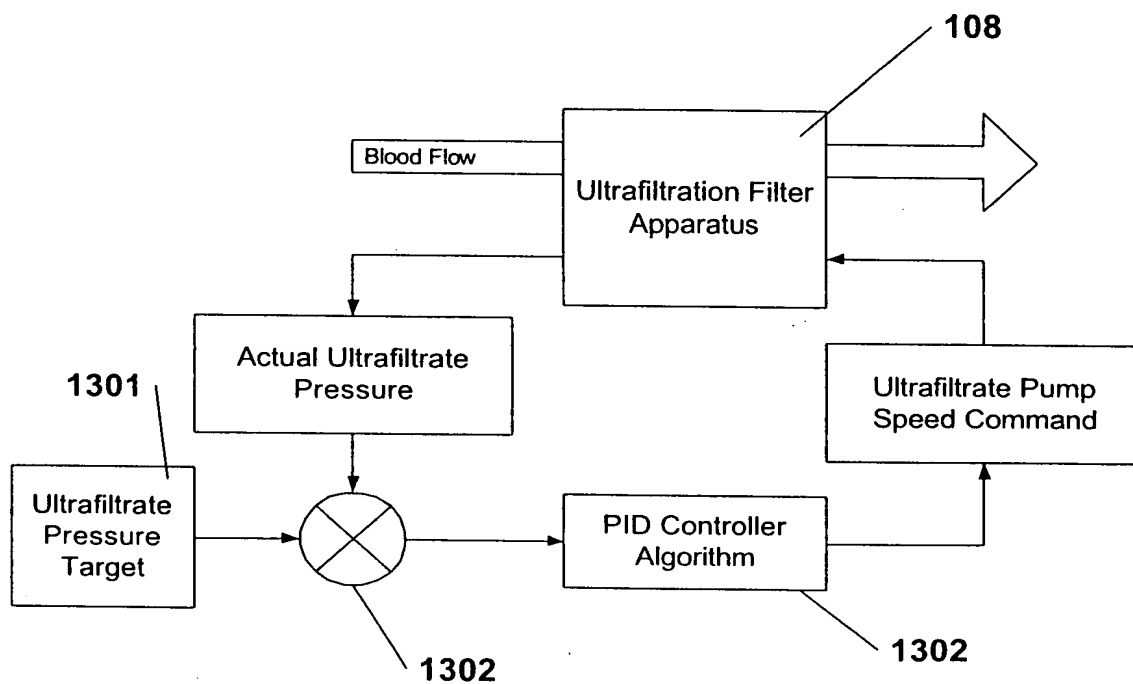


Fig. 13